

SEQUENCE LISTING

<110> HER MAJESTY IN RIGHT OF CANADA AS REPRESENTED BY THE
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<120> RETRONS FOR GENE TARGETING

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<141> 2003-06-05

<150> US 60/386,640

<151> 2002-06-05

<160> 6

<170> PatentIn version 3.2

<210> 1

<211> 1023

<212> DNA

<213> Artificial Sequence

<220>

<223> NLS-RT Sequence

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gctgattttc gctataggat ctacactgta gaaaagaaag gccagagaa gagaatgaga 240
accatttacc aaccttctcg agaacttaaa gccttacaag gatgggttct acgtaacatt 300
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aataatgcta ccccgcatat tggggcaaac tttatactga atattgattt ggaggatttt 420
ttcccaagtt taactgctaa caaagttttt ggagtgttcc attctcttgg ttataatcga 480
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ccatcatcac ctaaattagc taatctaata tgttctaacc ttgattatcg tattcagggt 600
tatgcaggta gtcggggctt gatataacg agatatgccg atgatctcac cttatctgca 660
cagtctatga aaaagggtgt taaagcacgt gattttttat tttctataat cccaagtga 720
ggattggtta ttaactcaaa aaaaacttgt attagtgggc ctcgtagtca gaggaagt 780
acagggttag ttatttcaca agagaaagt gggataggta gagaaaaata taaagaaatt 840
agagcaaaga tacatcatat attttgcggt aagtcttctg agatagaaca cgtagggga 900
tggttgatcat ttattttaag tgtggattca aaaagccata ggagattaat aacttatatt 960
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<210> 2

<211> 1106

<212> DNA

<213> Artificial Sequence

<220>

<223> Resynthesized Version of NLS-RT

<400> 2

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| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|------|
| gatgatgatg | ataagggagt | taacggagga | ggtggaggag | gtggaggtgg | aggcgccaag | 120 |
| tctgctgagt | acctcaacac | cttcaggctc | aggaacctcg | gactccctgt | tatgaacaac | 180 |
| ctccacgata | tgtctaaagg | taccaggatc | tctggttgaga | ccctcaggct | cctcatctac | 240 |
| accgctgatt | tcaggtagac | gatctacacc | gttgagaaga | agggacctga | gaagaggatg | 300 |
| aggaccatct | accaaccttc | tagggaactt | aaggctctcc | aaggatgggt | tctcaggaac | 360 |
| atcctcgata | agctctcttc | ttctcctttc | tctatcggat | tcgagaagca | ccaatctatc | 420 |
| ctcaacaacg | ctacctctca | catcggagct | aacttcattc | tcaacatcga | tcttgaagat | 480 |
| ttcttccctt | ctctcaccgc | taacaagggt | ttcggagttt | tccactctct | cggatacaac | 540 |
| aggctcatct | cttctgttct | caccaagatc | tgctgctaca | agaacctcct | ccctcaagggt | 600 |
| gctccttctt | ctcctaagct | cgctaaccct | atctgctcta | agctcgatta | cagaattcaa | 660 |
| ggatacgctg | gatctagggg | actcatctac | accaggtagc | ctgatgatct | cacctctctt | 720 |
| gctcaatcta | tgaagaagg | tgtaaggct | agggatttcc | tcttctctat | catcccttct | 780 |
| gagggactcg | ttatcaactc | taagaagacc | tgcatctctg | gacctagggt | tcaaaggaag | 840 |
| gttaccggac | tcgttatctc | tcaagagaag | gttggaatcg | gaagggagaa | gtacaaggag | 900 |
| atcagggcta | agatccacca | catcttctgc | ggaaagtctt | ctgagatcga | gcacgttagg | 960 |
| ggatggctct | ctttcatcct | ctctgttgat | tctaagtctc | acaggaggct | catcacctac | 1020 |
| atctctaagc | ttgaaaagaa | gtacggaaag | aacctctctc | acaaggctaa | gacctaatga | 1080 |
| gcggccgcac | tagtgatatc | tctaga | | | | 1106 |

<210> 3
 <211> 237
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> STEM3 Sequence

| | | | | | | |
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| aacctctgga | tggtgtttcg | gcatcctgca | ttgaatctga | gttactgtct | gttttccttg | 180 |
| ttggaacgga | gagcatcgtc | tagacaacga | tatctgatgc | tctccgagcc | aaccaggaaa | 237 |
| cccgtttttt | ctgacgtaag | ggtgcgcgag | cgctgttggc | gtggccaatg | cggccgc | |

<210> 4
 <211> 268
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> STOP-stem Sequence

| | | | | | | |
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| <400> | 4 | | | | | 60 |
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| aacctctgga | tggtgtttcg | gcatcctgca | ttgaatctga | gttactgtct | gttttccttg | 180 |
| ttggaacgga | gagcatcgtc | tagaggatcc | gggtcgctcg | ctgcgtcgct | gcggaattcg | 240 |
| atatctgatg | ctctccgagc | caaccaggaa | acccgttttt | tctgacgtaa | gggtgcgcgag | 268 |
| ccgctgttgg | cgtggccaat | gcggccgc | | | | |

<210> 5
 <211> 221
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> 3'-recruitment Sequence

| | | | | | | |
|------------|------------|------------|------------|------------|------------|----|
| <400> | 5 | | | | | 60 |
| tctagaccgg | gggatgctct | ccgagccaac | caggaaaccc | gttttttctg | acgtaagggt | |

